



**LITHIUM ION SECONDARY BATTERY AND MANUFACTURING
METHOD OF THE SAME**

ABSTRACT

The present invention discloses an improved lithium battery comprising a positive electrode, a negative electrode and a separator, and a manufacturing method of the same. The positive and negative electrodes comprise an active compounds selected from the group consisting of a compound being capable of reacting reversibly with a lithium ion, a compound having a structure that products of reacting a lithium ion with an electrolyte salt or an electrolyte solvent are capable of deposition or precipitation, or a compound having a structure that a lithium ion can be intercalated, an additive comprising a fiber of micron scale having an electron conductivity, a collector comprising metal or carbon material, and an adhesive. The lithium ion secondary battery prepared from the above described electrode has a low interal resistance, a high capacity and a high-speed recharging-discharging capability.